

### AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A method for determining whether an extract of *Lentinus edodes* mycelium ~~a material *in vitro* has a~~ having an LAK activity-enhancing effect suitable for a subject, comprising the steps of:

- (a) isolating peripheral blood from the subject to prepare lymphocyte fractions,
- (b) preparing ~~an a~~ LAK-induced sample, ~~which is produced~~ by treating the said lymphocyte fractions with the extract of *Lentinus edodes* mycelium ~~a screening material of the present invention~~, and preparing a control sample, ~~which is produced~~ in the absence of the extract of *Lentinus edodes* mycelium ~~the screening material~~, and
- (c) measuring and comparing the LAK activity of ~~said~~ the LAK-induced sample and ~~said~~ the control sample to determine the *in vitro* LAK activity-enhancing effect of the extract of *Lentinus edodes* mycelium ~~the screening material~~ for ~~said~~ the subject.

2.(Currently Amended) The method of claim 1, wherein ~~the screening material is an~~ extract of *Lentinus edodes* mycelium is prepared by a method comprising the steps of:

crushing and delignifying a solid medium containing *Lentinus edodes* mycelia in the presence of water and one or more of additive enzyme(s) selected from cellulase, protease or glucosidase to prepare a suspension, wherein said solid medium is based on bagasse and defatted rice bran; and

raising the temperature of said suspension to 80-100°C to inactivate the enzyme(s).

3. (Withdrawn) A screening material containing an extract of *Lentinus edodes* mycelium capable of being used in the *in vitro* screening method of claim 1 to screen if the LAK activity can be enhanced *in vivo*.

4. (Withdrawn) A method for treating a tumor of a subject by *in vivo* administering the screening material of claim 2.